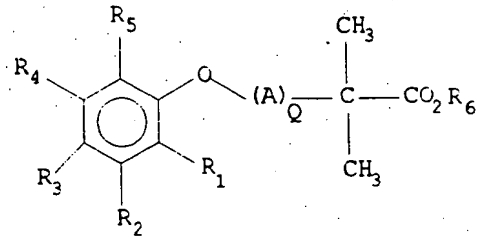
What is claimed is:

1. A method for inhibiting growth of a bacterium which consists essentially of contacting the bacterium with a compound having the structure:



wherein each of R_1, R_2, R_3, R_4, R_5 and R_6 comprises independently H, F, Cl, Br, I, -OH, $-OR_7$, -CN, $-COR_7$, $-SR_7$, $-N(R_7)_2$, $-NR_7COR_8$, $-NO_2$, $-(CH_2)_pOR_7$, $-(CH_2)_pX(R_7)_2$, $-(CH_2)_pXR_7CO R_8$, a straight chain or branched, substituted or unsubstituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_3-C_{10} cycloalkyl, C_3-C_{10} cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein a linkage to the benzene ring may alternatively be -N-, -S-, -O- or -C-; wherein R_7 R_8 may be independently H, F, Cl, Br, I, -OH, -CN, -COH, $-SH_2$, $-NH_2$, -NHCOH, $-(CH_2)_p$OH, $-(CH_2)_pX(CH_2)$, $-(CH_2)_pXCOH$, a straight chain or branched, substituted or unsubstituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_3-C_{10} cycloalkyl, C_3-C_{10} cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein A may be $-N_2-$, -NH-, -C=C=CH_2-, -C≡C-C_2HOH-, -C≡C-CH_2-, $-CH_2-CH_2$-O-, $-CH_2-CH_2-CH_2$-O-, -S-, $-S(=O)_2-$, -C=O-, -C=O-O-, -NH-C=O-, -C=O-NH-; and wherein Q, p, N and X may independently be an integer from 1 to 10, or if Q is 1 A comprises a (C_1-C_{10})-alkyl chain, (C_1-C_{10})-alkenyl chain or (C_1-C_{10})-alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O-

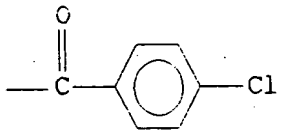
or -S- or -N-; or a pharmaceutically acceptable salt or ester thereof, which compound is present in a concentration effective to inhibit growth of the bacterium.

2. The method of claim 1, wherein A comprises an (C_1-C_{10})-alkylene chain, (C_1-C_{10})-alkyl chain, (C_1-C_{10})-alkenyl chain or (C_1-C_{10})-alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O- or -S- or -N-.

3. The method of claim 1, wherein
$R_1 = R_4 = CH_3$ or -OH,
$R_2 = R_3 = R_5 = R_6 = H$ or -OH,
$A = CH_2$,
and $Q = 3$.

4. The method of claim 1, wherein
$R_3 = Cl$,
$R_1 = R_2 = R_4 = R_5 = R_6 = H$ or -OH,
and $Q = 0$.

5. The method of claim 1, wherein

$R_3 =$ 

$R_6 = CH(CH_3)_2$,
$R_1 = R_2 = R_4 = R_5 = H$ or -OH,
and $Q = 0$.

6. The method of claim 1, wherein
$R_3 = Cl$,
$R_6 = C_2H_5$,
$R_1 = R_2 = R_4 = R_5 = H$ or -OH,
and $Q = 0$.

7. The method of claim 1, wherein the bacterium is *Legionella pneumophila, Mycobacterium tuberculosis, Bacillus subtilis, Bacillus Megaterium, Pseudomonas Oleovorans, Alcaligenes eutrophus, Rhodococcus sp., Citrobacter freundi, Group A Streptococcus sp., Coag neg Staphylococcus aureus* or *Nocardia sp.*

8. The method of claim 1, wherein the bacterium is *Legionella pneumophila.*

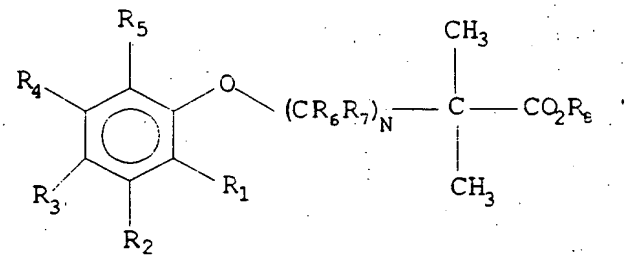
9. The method of claim 1, wherein the bacterium is *Mycobacterium tuberculosis.*

10. The method of claim 1, wherein the bacterium is in a eukaryotic cell.

11. The method of claim 1, wherein the concentration of the compound is from about 5μg/ml to about 100μg/ml.

12. The method of claim 1, wherein the concentration of the compound is 20μg/ml.

13. A method for alleviating the symptoms of a bacterial infection in a subject which consists essentially of administering to the subject an amount of a compound having the structure:



wherein each of R_1, R_2, R_3, R_4, R_5 and R_6 may be independently H, F, Cl, Br, I, -OH, $-OR_7$, -CN, $-COR_7$, $-SR_7$, $-N(R_7)_2$, $-NR_7COR_8$, $-NO_2$, $-(CH_2)_pOR_7$, $-(CH_2)_pX(R_7)_2$, $-(CH_2)_pXR_7COR_8$, a straight chain or branched, substituted or unsubstituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_3-C_{10} cycloalkyl, C_3-C_{10} cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein a linkage to the benzene ring may alternatively be -N-, -S-, -O- or -C-; wherein R_7 or R_8 may be independently H, F, Cl, Br, I, -OH, -CN, -COH, $-SH_2$, $-NH_2$, -NHCOH, $-(CH_2)_pOH$, $-(CH_2)_pX(CH_2)$, $-(CH_2)_pXCOH$, a straight chain or branched, substituted or unsubstituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_3-C_{10} cycloalkyl, C_3-C_{10} cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein A may be $-N_2-$, -NH-, $-C=C=CH_2-$, $-C\equiv C-C_2HOH-$, $-C\equiv C-CH_2-$, $-CH_2-CH_2-O-$, $-CH_2-CH_2-CH_2-O-$, -S-, $-S(=O)_2-$, -C=O-, -C=O-O-, -NH-C=O-, -C=O-NH-; and wherein Q, p, N and X may independently be an integer from 1 to 10, or if Q is 1 A may be a (C_1-C_{10})-alkyl chain, (C_1-C_{10})-alkenyl chain or (C_1-C_{10})-alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O-

or -S- or -N-; or a pharmaceutically acceptable salt or ester thereof, which compound is present in a concentration effective to inhibit bacterial growth and thus alleviate the symptoms of the bacterial infection in the subject.

14. The method of claim 13, wherein A comprises an (C_1-C_{10})-alkylene chain, (C_1-C_{10})-alkyl chain, (C_1-C_{10})-alkenyl chain or (C_1-C_{10})-alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O- or -S- or -N-.

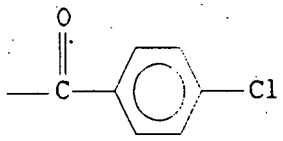
15. The method of claim 13, wherein

$R_1 = R_4 = CH_3$ or -OH,
$R_2 = R_3 = R_5 = R_6 = H$ or -OH,
$A = CH_2$,
and $Q = 3$.

16. The method of claim 13, wherein

$R_3 = Cl$,
$R_1 = R_2 = R_4 = R_5 = R_6 = H$ or -OH,
and $Q = 0$.

17. The method of claim 13, wherein

$R_3 =$ 

$R_6 = CH(CH_3)_2$,
$R_1 = R_2 = R_4 = R_5 = H$ or -OH,
and $Q = 0$.

18. The method of claim 13, wherein

$R_3 = Cl$,
$R_6 = C_2H_5$,

$R_1 = R_2 = R_4 = R_5 = H$ or -OH,
and Q = 0.

19. The method of claim 13, wherein the bacterial infection is associated with *Legionella pneumophila, Mycobacterium tuberculosis, Bacillus subtilis, Bacillus Megaterium, Pseudomonas Oleovorans, Alcaligenes eutrophus, Rhodococcus sp., Citrobacter freundi, Group A Streptococcus sp., Coag neg Staphylococcus aureus* or *Nocardia sp.*

20. The method of claim 13, wherein the bacterial infection is associated with *Legionella pneumophila.*

21. The method of claim 13, wherein the bacterial infection is associated with *Mycobacterium tuberculosis.*

22. The method of claim 13, wherein the subject is a human or an animal.

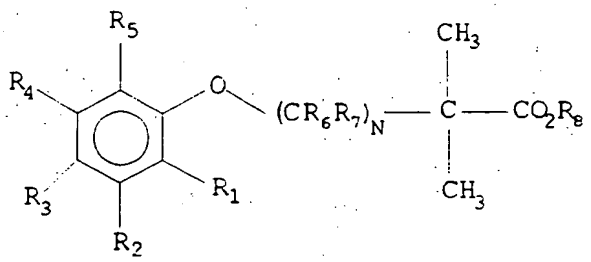
23. The method of claim 13, wherein the bacterial infection is associated with Leprosy, Brucella or Salmonella.

24. The method of claim 13, wherein the concentration of the compound is from about 5 μg/ml blood of the subject to about 180 μg/ml blood of the subject.

25. The method of claim 13, wherein the concentration of the compound is 90 μg/ml blood of the subject.

26. The method of claim 13, wherein the administration to the subject is oral.

27. A method of inhibiting activity of Enoyl Reductase Enzyme in a cell which comprises contacting the cell with a compound having the structure:



wherein each of R_1, R_2, R_3, R_4, R_5 and R_6 may be independently H, F, Cl, Br, I, -OH, $-OR_7$, -CN, $-COR_7$, $-SR_7$, $-N(R_7)_2$, $-NR_7COR_8$, $-NO_2$, $-(CH_2)_pOR_7$, $-(CH_2)_pX(R_7)_2$, $-(CH_2)_pXR_7COR_8$, a straight chain or branched, substituted or unsubstituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_3-C_{10} cycloalkyl, C_3-C_{10} cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein a linkage to the benzene ring may alternatively be -N-, -S-, -O- or -C-; wherein R_7 or R_8 may be independently H, F, Cl, Br, I, -OH, -CN, -COH, $-SH_2$, $-NH_2$, -NHCOH, $-(CH_2)_pOH$, $-(CH_2)_pX(CH_2)$, $-(CH_2)_pXCOH$, a straight chain or branched, substituted or unsubstituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_3-C_{10} cycloalkyl, C_3-C_{10} cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein A may be $-N_2-$, -NH-, $-C=C=CH_2-$, $-C\equiv C-C_2HOH-$, $-C\equiv C-CH_2-$, $-CH_2-CH_2-O-$, $-CH_2-CH_2-CH_2-O-$, -S-, $-S(=O)_2-$, -C=O-, -C=O-O-, -NH-C=O-, -C=O-NH-; and wherein Q, p, N and X may independently be an integer from 1 to 10, or if Q is 1 A may be a (C_1-C_{10})-alkyl chain, (C_1-C_{10})-alkenyl chain or (C_1-C_{10})-alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O- or -S- or -N-; or a pharmaceutically acceptable salt or

ester thereof, which compound is present in a concentration effective to inhibit activity of the enzyme.

28. The method of claim 27, wherein A comprises an (C_1-C_{10})-alkylene chain, (C_1-C_{10})-alkyl chain, (C_1-C_{10})-alkenyl chain or (C_1-C_{10})-alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O- or -S- or -N-.

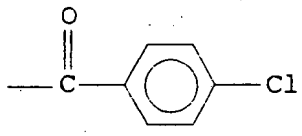
29. The method of claim 27, wherein

$R_1 = R_4 = CH_3$,
$R_2 = R_3 = R_5 = R_6 =$ H or -OH,
A = CH_2,
and Q = 3.

30. The method of claim 27, wherein

R_3 = Cl,
$R_1 = R_2 = R_4 = R_5 = R_6$ = H or -OH,
and Q = 0.

31. The method of claim 27, wherein

R_3 = 

$R_6 = CH(CH_3)_2$,
$R_1 = R_2 = R_4 = R_5$ = H or -OH,
and Q = 0.

32. The method of claim 27, wherein

R_3 = Cl,
$R_6 = C_2H_5$,
$R_1 = R_2 = R_4 = R_5$ = H or -OH,
and Q = 0.

33. The method of claim 27, wherein the enzyme is in a bacterium.

34. The method of claim 33, wherein the bacterium is *Legionella pneumophila, Mycobacterium tuberculosis, Bacillus subtilis, Bacillus Megaterium, Pseudomonas Oleovorans, Alcaligenes eutrophus, Rhodococcus sp., Citrobacter freundi, Group A Streptococcus sp., Coag neg Staphylococcus aureus* or *Nocardia sp.*

35. The method of claim 33, wherein the bacterium is *Legionella pneumophila.*

36. The method of claim 33, wherein the bacterium is *Mycobacterium tuberculosis.*

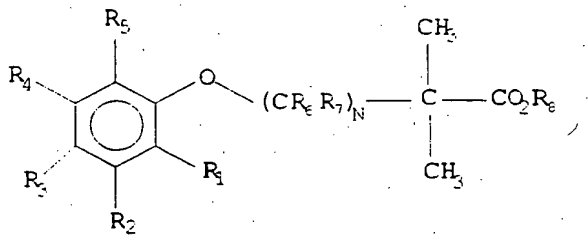
37. The method of claim 27, wherein the enzyme is in a cell.

38. The method of claim 37, wherein the cell is a mammalian cell.

39. The method of claim 27, wherein the concentration of the compound is from about 5μg/ml to about 100μg/ml.

40. The method of claim 27, wherein the concentration of the compound is 20μg/ml.

41. A method of altering a pathway of fatty acid synthesis in a bacterium which comprises contacting the bacterium with a compound having the structure



wherein each of R_1, R_2, R_3, R_4, R_5 and R_6 may be independently H, F, Cl, Br, I, -OH, $-OR_7$, -CN, $-COR_7$, $-SR_7$, $-N(R_7)_2$, $-NR_7COR_8$, $-NO_2$, $-(CH_2)_pOR_7$, $-(CH_2)_pX(R_7)_2$, $-(CH_2)_pXR_7COR_8$, a straight chain or branched, substituted or unsubstituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_3-C_{10} cycloalkyl, C_3-C_{10} cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein a linkage to the benzene ring may alternatively be -N-, -S-, -O- or -C-; wherein R_7 or R_8 may be independently H, F, Cl, Br, I, -OH, -CN, -COH, $-SH_2$, $-NH_2$, -NHCOH, $-(CH_2)_pOH$, $-(CH_2)_pX(CH_2)$, $-(CH_2)_pXCOH$, a straight chain or branched, substituted or unsubstituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_3-C_{10} cycloalkyl, C_3-C_{10} cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein A may be $-N_2-$, -NH-, $-C=C=CH_2-$, $-C\equiv C-C_2HOH-$, $-C\equiv C-CH_2-$, $-CH_2-CH_2-O-$, $-CH_2-CH_2-CH_2-O-$, -S-, $-S(=O)_2-$, -C=O-, -C=O-O-, -NH-C=O-, -C=O-NH-; and wherein Q, p, N and X may independently be an integer from 1 to 10, or if Q is 1 A may be a (C_1-C_{10})-alkyl chain, (C_1-C_{10})-alkenyl chain or (C_1-C_{10})-alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O- or -S- or -N-; or a pharmaceutically acceptable salt or ester thereof, thus altering the pathway of fatty acid

synthesis.

42. The method of claim 41, wherein A comprises an (C_1-C_{10})-alkylene chain, (C_1-C_{10})-alkyl chain, (C_1-C_{10})-alkenyl chain or (C_1-C_{10})-alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O- or -S- or -N-.

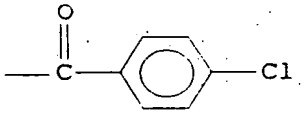
43. The method of claim 41, wherein

$R_1 = R_4 = CH_3$ or -OH,
$R_2 = R_3 = R_5 = R_6 =$ H or -OH,
A = CH_2,
and Q = 3.

44. The method of claim 41, wherein

R_3 = Cl,
$R_1 = R_2 = R_4 = R_5 = R_6 =$ H or -OH,
and Q = 0.

45. The method of claim 41, wherein

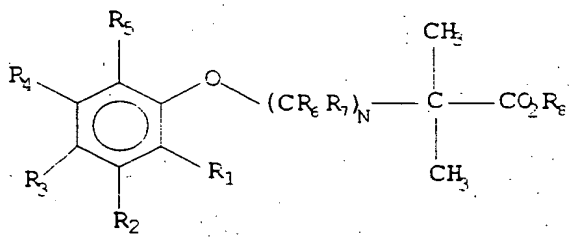
R_3 = 

$R_6 = CH(CH_3)_2$,
$R_1 = R_2 = R_4 = R_5 =$ H or -OH,
and Q = 0.

46. The method of claim 41, wherein the bacterium is *Legionella pneumophila, Mycobacterium tuberculosis, Bacillus subtilis, Bacillus Megaterium, Pseudomonas Oleovorans, Alcaligenes eutrophus, Rhodococcus sp., Citrobacter freundi, Group A Streptococcus sp., Coag neg Staphylococcus aureus* or *Nocardia sp.*

47. A method of inhibiting growth of a bacterium which consists essentially of contacting the bacteria with an enoyl reductase inhibitor so as to inhibit the reductase and thus inhibit the growth of the bacterium.

48. A method for determining whether or not a bacterium is sensitive to a compound having the structure:



wherein each of R_1, R_2, R_3, R_4, R_5 and R_6 may be independently H, F, Cl, Br, I, -OH, $-OR_7$, -CN, $-COR_7$, $-SR_7$, $-N(R_7)_2$, $-NR_7COR_8$, $-NO_2$, $-(CH_2)_pOR_7$, $-(CH_2)_pX(R_7)_2$, $-(CH_2)_pXR_7COR_8$, a straight chain or branched, substituted or unsubstituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_3-C_{10} cycloalkyl, C_3-C_{10} cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein a linkage to the benzene ring may alternatively be -N-, -S-, -O- or -C-; wherein R_7 or R_8 may be independently H, F, Cl, Br, I, -OH, -CN, -COH, $-SH_2$, $-NH_2$, -NHCOH, $-(CH_2)_pOH$, $-(CH_2)_pX(CH_2)$, $-(CH_2)_pXCOH$, a straight chain or branched, substituted or unsubstituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, C_3-C_{10} cycloalkyl, C_3-C_{10} cycloalkenyl, thioalkyl, methylene thioalkyl, acyl, phenyl, substituted phenyl, or heteroaryl; wherein A may be $-N_2-$, -NH-, $-C=C=CH_2-$, $-C\equiv C-C_2HOH-$, $-C\equiv C-CH_2-$, $-CH_2-CH_2-O-$, $-CH_2-CH_2-CH_2-O-$, -S-, $-S(=O)_2-$, -C=O-, -C=O-O-, -NH-C=O-, -C=O-NH-; and wherein Q, p, N and X may independently be an integer from 1 to 10, or if Q is 1 A may be a (C_1-C_{10})-alkyl chain, (C_1-C

$_{10}$)-alkenyl chain or (C_1-C_{10})-alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O- or -S- or -N-; or a pharmaceutically acceptable salt or ester thereof, which comprises contacting the bacterium with a concentration of the compound effective to inhibit growth of the bacterium if the bacterium is sensitive to the compound, thereby determining whether or not the bacterium is sensitive to the compound.

49. The method of claim 48, wherein A comprises an (C_1-C_{10})-alkylene chain, (C_1-C_{10})-alkyl chain, (C_1-C_{10})-alkenyl chain or (C_1-C_{10})-alkynyl chain which is branched or unbranched, substituted or unsubstituted and can optionally be interrupted 1 to 3 times by -O- or -S- or -N-.

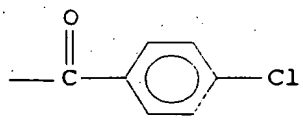
50. The method of claim 48, wherein

$R_1 = R_4 = CH_3$,
$R_2 = R_3 = R_5 = R_6$ = H or -OH,
A = CH_2 or -OH,
and Q = 3.

51. The method of claim 48, wherein

R_3 = Cl,
$R_1 = R_2 = R_4 = R_5 = R_6$ = H or -OH,
and Q = 0.

52. The method of claim 48, wherein

R_3 = 

$R_6 = CH(CH_3)_2$,
$R_1 = R_2 = R_4 = R_5$ = H or -OH,
and Q = 0.

53. The method of claim 48, wherein

R_3 = Cl,

R_6 = C_2H_5,

R_1 = R_2 = R_4 = R_5 = H or -OH,

and Q = 0.

54. The method of claim 48, wherein the bacterium is in a cell.

55. The method of claim 48, wherein the bacterium is selected from the group consisting of *Legionella pneumophila, Bacillus subtilis, Caulobacter crescentus, Citrobacter freundi, Nocardia sp., Rhodobacter spheroides, Group A Streptococcus sp., Coag neg Staphylococcus aureus* and *Mycobacterium tuberculosis*.

56. The method of claim 48, wherein the concentration of the compound is from about 5μg/ml to about 100μg/ml.

57. The method of claim 48, wherein the concentration of the compound is 20 μg/ml.

58. A method of selecting a compound which is capable of inhibiting the enzymatic activity of enoyl reductase which comprises:

(A) contacting enoyl reductase with the compound;

(B) measuring the enzymatic activity of the enoyl reductase of step (A) compared with the enzymatic activity of enoyl reductase in the absence of the compound, thereby selecting a compound which is capable of inhibiting the enzymatic activity of enoyl reductase.

59. The method of claim 58, wherein the compound contacts enoyl reductase at the site at which gemfibrozil

contacts enoyl reductase.